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# NOTICE OF ALLOWANCE AND FEE(S) DUE

05514

7590

01/13/2004

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 EXAMINER
GIBBS, HEATHER D

ART UNIT PAPER NUMBER
2622

DATE MAILED: 01/13/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/631,126	08/02/2000	Makoto Fujimoto	35.C14679	8463

TITLE OF INVENTION: LIGHT-SCANNING OPTICAL APPARATUS AND IMAGE FORMING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	04/13/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTAN'T REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)

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01/13/2004

FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112 Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

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I hereby certify that this Fee(s) Transmight is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below.

dansining to the obj 10, of the date indicated selow.	(Depositor's name)
	(Signature)
	(Date)

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 09/631,126
 08/02/2000
 Makoto Fujimoto
 35.C14679
 8463

TITLE OF INVENTION: LIGHT-SCANNING OPTICAL APPARATUS AND IMAGE FORMING APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FI	EE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330		\$0	\$1330	04/13/2004
EXAM	IINER	ART UN	ır	CLASS-SUBCLASS	]	
GIBBS, HI	EATHER D	2622		358-484000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  U Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  U "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer. Number is required.			names of agents Ol firm (hav agent) an	nting on the patent front page, f up to 3 registered patent at R, alternatively, (2) the name ing as a member a registered d the names of up to 2 regist or agents. If no name is listed inted.	ttorneys or 1 of a single attorney or 2 cred patent	
3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)						

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

4a. The following fce(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	□ A check in the armo	☐ A check in the amount of the fee(s) is enclosed.		
☐ Publication Fee	□ Payment by credit of	□ Payment by credit card. Form PTO-2038 is attached.		
☐ Advance Order - # of Copies	U The Director is hereby authorized by charge the required fee(s), or credit any overpayment, Deposit Account Number(enclose an extra copy of this form).			

(Authorized Signature) (Date)

NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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FITZPATRICK CELLA HARPER & SCINTO			GIBBS, HE	ATHER D
30 ROCKEFELLI NEW YORK, NY			ART UNIT	PAPER NUMBER
			2622	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 721 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 721 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	Application No.	Applicant(s)
	09/631,126	FUJIMOTO, MAKOTO
· Notice of Allowability	Examiner	Art Unit
	Heather D Gibbs	2622
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to 12/29/2003.		
2. X The allowed claim(s) is/are <u>1-34</u> .		
3. ☑ The drawings filed on <u>08/02/2000</u> are accepted by the Exal		
<ol> <li>Acknowledgment is made of a claim for foreign priority un</li> <li>All b) ☐ Some* c) ☐ None of the:</li> </ol>	ider 35 U.S.C. 9 119(a)-(d) Of (f).	
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.	
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
<ol> <li>Acknowledgment is made of a claim for domestic priority ur reference was included in the first sentence of the specifica</li> </ol>	ition or in an Application Data Sheet	
(a) The translation of the foreign language provisional a	• •	
<ol> <li>Acknowledgment is made of a claim for domestic priority ur in the first sentence of the specification or in an Application</li> </ol>		nce a specific reference was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a reply co this application. THIS THREE-MON	omplying with the requirements noted NTH PERIOD IS NOT EXTENDABLE
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>		
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a) including changes required by the Notice of Draftspers</li> <li>1) hereto or 2) to Paper No</li> </ol>		948) attached
(b) ☐ including changes required by the proposed drawing co	orrection filed, which has be	en approved by the Examiner.
(c) ☐ including changes required by the attached Examiner's		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir he margin according to 37 CFR 1.121(d	igs in the front (not the back) of d).
<ul> <li>DEPOSIT OF and/or INFORMATION about the deposattached Examiner's comment regarding REQUIREMENT FOR Transfer of the second second</li></ul>		
Attachment(s)		
1☐ Notice of References Cited (PTO-892)	5☐ Notice of Informal Pa	tent Application (PTO-152)
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6☐ Interview Summary (I	PTO-413), Paper No
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No. 8	), 7 Examiner's Amendme	ent/Comment
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	9□ Other	t of Reasons for Allowance DWARD COLES SORY PATENT EXAMINER IOLOGY CENTER 2600

Art Unit: 2622

### **DETAILED ACTION**

### Response to Amendment

 Applicant's amendment was received on 12/29/2003 and has been entered and made of record. Claims 1-3,7-9,23-28,31-46 are cancelled. Claims have been renumbered to 1-34.

#### Allowable Subject Matter

- Claims 1-34 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Examiner found neither prior art cited in its entirety, nor based on the prior art, found any motivation to combine any of said prior art which teaches a light-scanning optical apparatus comprising: an optical deflector; an incidence optical system adapted to cause a light beam emitted from a light source to strike a deflection plane of said optical deflector with a predetermined angle in a sub-scanning section; and a focusing optical system for focusing the light beam reflected by the deflection plane of the optical deflector on a surface to be scanned, wherein said focusing optical system includes an  $f\Theta$  lens system having a spherical lens and a first cylindrical lens showing power in the main-scanning direction and an optical system showing power in the sub-scanning direction, wherein said focusing optical system satisfies the requirements of conditional formulas (1) and (2) (as noted in specification) wherein F is the focal length of the  $f\Theta$  lens system in the main-scanning direction, R2 is the radius of curvature of the surface of the spherical lens facing the surface to be scanned, R3 is the radius of curvature of the surface of the first cylindrical lens facing the optical deflector as

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Art Unit: 2622

viewed in the main-scanning direction, N1 is the refractive index of the material of the spherical lens at the operating wavelength, and N2 is the refractive index of the material of the first cylindrical lens at the operating wavelength, as set forth in claims 1 and 19 including all of the features recited therein.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather D Gibbs whose telephone number is 703-306-4152. The examiner can normally be reached on M-F 8AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward L. Coles can be reached on 703-305-4712. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Heather D Gibbs

Examiner

Art Unit 2622

hdg

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600